

Control Number: 50595



Item Number: 113

Addendum StartPage: 0



## Public Utility Commission of Texas

### Employee Training Report

Required by 16 Texas Admin. Code § 25.97(d)

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PUBLIC UTILITY COMMISSION  
FILING CLERK

**PROJECT NO.** 50595

**AFFECTED ENTITY:** Hamilton County Electric Cooperative

#### General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

#### Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

#### Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

#### Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk  
Public Utility Commission of Texas  
1701 N. Congress Avenue  
P.O. Box 13326  
Austin, Texas 78711-3326  
Telephone: (512) 936-7180

113

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

#### Distribution

Safety Meeting — HB 4150 Training: This training will include an overview of HB 4150 with an explanation of requirements for the utilities operating in Texas. It will cover hazard recognition training as it applies to the requirements of the National Electric Safety Code (NESC), including clearance guideline requirements and proactive recognition and reporting of hazards and clearance related issues on the utility system. The training will cover clearance requirements for lands, roadways, and waterways. The employee training will also explain to whom, when and how these requirements and HB 4150 applies, including requirements and deadlines for filing reports. Following is a description of the course outline and materials:

##### Course Outline:

- 1.HB 4150 Review
- 2.Hazard Recognition
- 3.NESC Clearance Guideline Requirements

##### Course Materials:

- 1.Power Point Presentation
- 2.Presentation Material Handouts
- 3.NESC Clearance Handouts
4. HB 4150 Law

#### Transmission

Hazardous Recognition Training for Transmission Facilities: PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to provide hazard recognition training related to overhead transmission and distribution facilities. For the purposes of this training, transmission facilities include those electric facilities operating above 60 kV. One of the challenges to recognizing hazards inherent to transmission facilities is the significant changes in conductor sag for transmission lines. The goal for this training is to educate employees to observe, recognize and report hazardous situations. Following is a description of the course outline and objectives:

##### Course Outline:

1. Definition of a Hazard
2. Hazards to Report
  - a.Non-compliance with NESC
  - b.Failed System Components
  - c.Failure of Warning Lights/Marker Balls
3. Summary of Clearances for Transmission Facilities
4. Recognition of Changes in Conductor Sag for Long Spans
5. Activities near the Line
  - a.Grading
  - b.Crane Operation OSHA 1926.1408(a)
  - c.Scaffold Clearances OSHA 1926.451(f)
  - d.Construction of Adjacent Buildings/Signs
6. Right-of-way Issues
  - a.Danger Trees
  - b.Dead Trees
  - c.Erosion of the Right-of-Way
7. Priorities of Reported Issues
8. Record Keeping Requirements

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

**Distribution**

Safety Meeting - NESC Training: This training will include clearance requirements for lands, roadways, and waterways and an explanation of clearance requirements, with the goal of preparing employees to proactively recognize and report hazards and clearance related issues on utility systems.

**Course Outline:**

1. NESC Clearance Guideline Requirements Course

**Materials:**

1. Power Point Presentation
2. Presentation Material Handouts
3. NESC Clearance Handouts

**Transmission**

Transmission Webinar for PURA §38.102: PURA §38.102 requires electric utilities including electric cooperatives and municipally owned utilities to provide training to employees related to the National Electric Safety Code (NESC) for construction of electric transmission and distribution lines. This webinar discusses the requirements for transmission facilities which are defined as facilities operating above 60 kV. The webinar will not include discussions regarding distribution lines. This training will focus on transmission clearances, strength issues, and access of overhead transmission lines.

**Course Outline:**

1. Maximum Operating Temperature and Sag Requirements for Transmission Conductors
2. Additional Ground Clearance Requirements for Transmission Lines
  - a. Maximum Operating Voltage
  - b. Elevation above Sea Level
  - c. Electrostatic Effects to Vehicles below the Line.
3. Additional Clearances from Building/Signs
  - a. Deflection of Insulators
  - b. Deflection of Structures
  - c. Clearance Based on Maximum Operating Voltage
  - d. Limited Electrostatic Effects to Buildings and Signs below the Line
4. Mid-span Conductor Clearances
5. Power Lines and Phone Lines Crossing below Transmission Lines
6. Grade of Construction for Voltages Over 22kV
  - a. Guying Strength Requirements
  - b. Under-build Strength Requirements
7. Identification of Climvable Supporting Structures

**Objectives:**

1. Determine appropriate clearances for transmission lines.
2. Define maximum sag for determined clearances.
3. Identify strength requirements for transmission facilities

**Materials:**

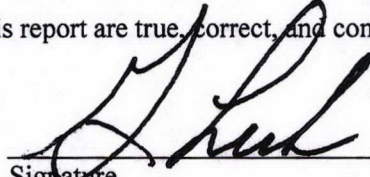
NESC Clearance Charts

Affected Entity: Hamilton County Electric Cooperative

PROJECT NO. 50595

### AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

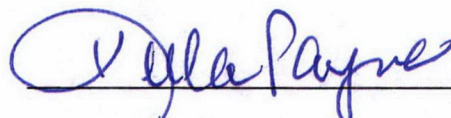
  
Signature

Georse Luker  
Printed Name

Safety Coordinator  
Job Title

Hamilton County Electric Cooperative  
Name of Affected Entity

Sworn and subscribed before me this 30 day of April, 2020.  
Month Year

  
Notary Public in and For the State of Texas

My commission expires on 07-17-2021

